

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/14603

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/36 H04B7/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 130 886 A (KETSEOGLU THOMAS J ET AL) 10 October 2000 (2000-10-10) column 1, line 9 - line 13 column 3, line 3 - line 65 column 31, line 17 - column 32, line 52 claims 1,3-5 ---	1-38
X A	WO 95 17077 A (SAINTON JOSEPH B) 22 June 1995 (1995-06-22) page 3, line 25 - page 4, line 4 page 10, line 8 - line 20 page 11, line 12 - line 20 page 36, line 25 - page 37, line 17 claims 1,13 --- -/--	1,18, 35-37 2-17, 19-34,38

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

8 August 2003

Date of mailing of the international search report

21/08/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Donnini, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/14603

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 47357 A (KARABINIS PETER D ;SINGH RAJENDRA (US); MOBILE SATELLITE VENTURES) 13 June 2002 (2002-06-13)	1,18, 35-37
A	page 5, line 19 -page 6, line 29 page 12, line 1 - line 12 page 28, line 1 -page 31, line 30 page 38, line 19 -page 40, line 24 claims 45,71-73 ----	2-17, 19-34,38
A	GB 2 313 255 A (MOTOROLA LTD) 19 November 1997 (1997-11-19) page 1, line 10 -page 3, line 8 page 4, line 5 - line 9 page 9, line 21 -page 10, line 2 claims 1,2 ----	1-38
A	US 5 034 993 A (SOBTI ARUN ET AL) 23 July 1991 (1991-07-23) column 1, line 5 -column 3, line 27 claim 1; figures 1-3 ----	1-38
A	EP 0 996 301 A (MITSUBISHI ELECTRIC CORP) 26 April 2000 (2000-04-26) page 3, line 16 - line 42 claims 1,2 ----	1-38
A	US 6 122 270 A (ROBINSON WILLIAM NEIL ET AL) 19 September 2000 (2000-09-19) column 2, line 38 - line 56 column 3, line 19 -column 4, line 41 claims 1-3 -----	1-38

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/14603

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6130886	A	10-10-2000	US 5732076 A	24-03-1998
			AU 7394196 A	15-05-1997
			BR 9611169 A	06-04-1999
			CA 2235551 A1	01-05-1997
			EP 0857381 A1	12-08-1998
			JP 11513871 T	24-11-1999
			WO 9716000 A1	01-05-1997
WO 9517077	A	22-06-1995	AU 1674495 A	03-07-1995
			CA 2179151 A1	22-06-1995
			EP 0734636 A1	02-10-1996
			WO 9517077 A1	22-06-1995
			US 5761621 A	02-06-1998
			US 6134453 A	17-10-2000
			US 5854985 A	29-12-1998
WO 0247357	A	13-06-2002	AU 2580102 A	18-06-2002
			AU 8468801 A	13-02-2002
			CA 2328013 A1	02-02-2002
			CA 2381811 A1	07-02-2002
			CA 2428702 A1	13-06-2002
			EP 1316233 A2	04-06-2003
			US 2002090942 A1	11-07-2002
			WO 0211302 A2	07-02-2002
			WO 0247357 A2	13-06-2002
			US 2002041575 A1	11-04-2002
GB 2313255	A	19-11-1997	WO 9744979 A2	27-11-1997
US 5034993	A	23-07-1991	JP 2284531 A	21-11-1990
EP 0996301	A	26-04-2000	AU 2745999 A	08-11-1999
			CA 2329204 A1	28-10-1999
			EP 0996301 A1	26-04-2000
			US 2002191563 A1	19-12-2002
			US 6469995 B1	22-10-2002
			CN 1307786 T	08-08-2001
			WO 9955104 A1	28-10-1999
US 6122270	A	19-09-2000	GB 2297460 A	31-07-1996
			AU 692055 B2	28-05-1998
			AU 4664396 A	14-08-1996
			BR 9606850 A	14-01-2003
			DE 69602078 D1	20-05-1999
			DE 69602078 T2	18-11-1999
			EP 0806097 A1	12-11-1997
			FI 973132 A	28-07-1997
			HK 1004848 A1	19-05-2000
			JP 3309223 B2	29-07-2002
			JP 10512728 T	02-12-1998
			CN 1176717 A ,B	18-03-1998
			WO 9623369 A1	01-08-1996